PENTAX DIGITAL SLR

PENTAX K-x

-X TREMELY COMPREHENSIVE AND EASY

- **12.3 MEGAPIXEL CMOS SENSOR** - 23.6X15.8 MM, HIGH-SPEED PRIME II IMAGING ENGINE
- **HDTV-PROPORTION MOVIE** 1280X720 PIXELS AT 24 FPS
- **LIVEVIEW FUNCTION**, WITH FACE DETECTION OF UP TO 16 FACES AND DIRECT AF ON A **2,7'' LCD SCREEN**, 230 KDOTS
- **IN-BODY** SHAKE REDUCTION
- **4.7 FPS HIGH-SPEED CONTINUOUS SHOOTING**
- **SHUTTER SPEED 1/6000 SEC MAX.**
- **SENSITIVITY RANGE** OF **ISO** 100 TO **12 800**
- **FAST AUTOFOCUS, WITH 11 SELECTABLE FOCUS POINTS**
- **VERY COMPACT DESIGN**: 122.5 X 91.5 X 67.5 MM
- **DUST REMOVAL** (DR) **SYSTEM**
- **DYNAMIC RANGE ENHANCEMENT** (DRE)
- ENERGY EFFICIENT CIRCUIT DESIGN FOR **LONGER BATTERY LIFE** (1100 SHOTS ON ONE CHARGE)
- CREATIVE AND EASY FUNCTIONS: **AUTOPICTURE** MODE, DIGITAL **FILTERS**, **CUSTOM IMAGE** MODE, **HDR** (HIGH DYNAMIC RANGE) FUNCTION, **CROSS PROCESS** MODE
- **AVAILABLE IN 4 COLOURS:** NAVY BLUE, WHITE, RED AND BLACK

Black K-x — body only
Code No. 16701 EAN 0027075159433

Black K-x + DA 18-55mmL
Code No. 16301 EAN 0027075159440

Black K-x + 18-55 DAL + 50-200 DAL
Code No. 16201 EAN 0027075159457

White K-x + White 18-55 DAL
Code No. 16302 EAN 0027075159617

Navy Blue K-x + Black 18-55 DAL
Code No. 16394 EAN 0027075160538

Red K-x + Red 18-55 DAL
Code No. 16303 EAN 0027075159624

These are European Codes (excl. UK)

SUPPLIED ACCESSORIES

USB CABLE I-USB7
4 X LITHIUM AA BATTERIES
STRAP O-ST53
SOFTWARE: S-SW99 : PENTAX DIGITAL CAMERA UTILITY 4.0

OPTIONAL ACCESSORIES

	No.
DA 55-300MM TELE-LENS	21720
AF200-FG FLASH	30465
O-ME53 MAGNIFYING EYECUP (1.2X)	30150
NEOPRENE CAMERA CASE	50207
LADYS CAMERA BAG	50198
SLR MULTIBAG	50099
KHAKI SLR BAG	50228
CROSSOVER BAG X-LARGE	50199
REMOTE CONTROL F	37377
NEOPRENE STRAP	50151
2.7" PROTECTION FILMS	50121
AC ADAPTER KIT K-AC84H	39761
D-DC84 COUPLER	39693
AV CABLE I-VC28	39262

21720

30465

30150

37377

39761

TECHNICAL SPECIFICATION — PENTAX K-x

TYPE

Type	TTL autofocus, auto-exposure digital SLR with built-in retractable P-TTL auto pop-up flash
Lens mount	PENTAX KAF2 bayonet mount
Compatible lenses	Compatible with bayonet mount lenses KAF3, KAF2 , KAF, KAF, with power zoom KAF2, K-mount - with restrictions, M42 and medium-format with an adapter with certain restrictions* Compatible with the new generation of ultrasonic lenses (SDM, Super-Direct-drive Motor)

IMAGE SENSOR

Sensor	CMOS sensor
Sensor size	23.6 x 15.8 mm CMOS sensor with a primary colour filter
Number of pixels	12.9 megapixels (total) - 12.4 megapixels (effective)
Stabilisation system	Sensor shift system (4-stop shutter speed benefit when hand held)
Dust protection	Sensor cleaning by vibration coupled with anti-dust Super-Protect (SP) sensor coating Dust detection system (Dust Alert)
Colour depth	3 x 12 bits in RAW, 3 x 8 bits in JPEG
A/D converter	Image : 12 bits - Video : 10 bits

RECORDING AND IMAGE FORMATS

Image formats	RAW (Original PEF, DNG) JPEG (Exif 2.21), DCF 2.0 RAW+JPEG simultaneously recordable Possible to convert from RAW to JPEG with in the camera (several image parameters can be changed during conversion)
Image size	Photo : in JPEG : 12M (4288x2848 pixels), 10M (3936x2624), 6M (3072x2048), 2M (1728x1152). Quality levels : compressed JPEG (Good, Better, Best), in RAW : 12M (4288x2848)
Support	Compatible with SD and SDHC (high capacity) memory cards

VIEWFINDER

Type	Fixed molded penta-mirror
Coverage	96%
Magnification	0.85x (with a 50mm F1.4 lens, infinity, -1m-1)
Eye relief	21.5mm
Dioptre adjustment	-2.5 to 1.5 dioptre
Focussing screen	Natural Bright Matt II focussing screen

LCD SCREEN

Type	2.7 inch (6.91cm diagonal), 230 000 dots, base colour temperature polysilicone TFT, calibratable screen
Angle of view	Extra-wide angle viewing 170° horizontally and vertically
Coverage	98%
Brightness range	14 settings
Display	Single frame or index screen (4, 9, 16, 36 images), zoom display (max 16x magnification with scroll possible), image comparison, rotating, folder, calendar, slideshow, histogram, file naming option (first 4 letters of file name), Bright/Dark area, resizing, trimming, real-time white-balance setting and preview, histogram

LIVEVIEW

Enlargement	In AF mode : 2X, 4X, 6X In manual mode : 2X, 4X, 6X, 8X, 10X
Autofocus	Contrast detection, face detection, phase difference detection
Options	Grid pattern, histogram display, blackout/whiteout exposure warning

VIDEO

Video format	AVI (Motion JPEG)
Video resolution	HD 1280 x 720 pixels—24 frames/sec. Video : 0.9M (1280x720, 16:9), 0.3M (640x416, 3:2)

EXPOSURE CONTROL

Metering modes	TTL 16 segment metering Choice of multi-zones, centre weighted or spot metering
Metering Range	EV0-20 (Standard output sensitivity ISO100 with 50mm F1.4 lens)
Exposure modes	Program AE, Sensitivity priority AE (Sv), Shutter priority AE (Tv), Aperture priority AE (Av), Metered Manual, Bulb, Video
Picture modes	AutoPicture*, Portrait, Landscape, Macro, Sport, Night Portrait, Flash off
Scene modes	Night scene, Surf & snow, Food, Sunset, Kids, Pets, Candle light, Museum, Concert, Night snapshot
Exposure compensation	+/- 3EV (in increments of 1/2 EV or 1/3 EV)
Exposure bracketing	3 images (in increments of 1/2 EV or 1/3 EV)
Auto exposure lock	This function can be allocated to AF button in Menu
Sensitivity	Auto, Manual: ISO 200-6400 (1EV or 1/2EV steps or 1/3EV steps) Extension to ISO 100 to 12800 possible. Bulb mode: up to ISO1600 .

* The AutoPicture mode automatically selects the scene mode from : Standard, Landscape, Portrait, Night Portrait, Night scene, Sport, Flower, Candle light

FOCUSING SYSTEM

Autofocus	SAFOX VIII with TTL phase detection
AF points	11 AF points individually selectable, automatic or centre
AF modes	A: Auto; AF-S: single, with focus-lock; AF-C: continuous; manual
AF assist	available via built-in flash

SHUTTER

Type	Electronically controlled vertical-run focal plane shutter
Shutter speeds	1/6000 sec. to 30 seconds and Bulb
Flash Synchronization	1/180 sec., P-TTL, high-speed-sync, wireless-sync

FLASH

Built-in flash	Manual opening, guide number 12 (at 100 ISO/m)
Metering system	Auto P-TTL retractable pop-up flash (RTF)
Flash coverage	Wide-angle lens (equivalent 28mm in 35mm format)
Modes flash	Auto, manual (On/Off), rear curtain sync, slow sync, red eye reduction, high speed sync (with external flash)
Synchronisation flash	1/180 sec, high speed, P-TTL, wireless
Exposure correction	+/- 2EV to +/- 1EV (in increments of 1/2)
External flash	Hot-shoe flash, P-TTL flash sync available with dedicated wireless system, (Wireless, controlled by flash) with dedicated flash.

INTERFACES

USB	USB 2.0 High-speed,
Video output	AV compatible with NTSC and PAL format
Other	Mains power input (optional AC adapter)

DRIVE MODES

Modes	Single, continuous (Hi, Lo), Self-timer (2, 12 sec.), Remote control (0, 3 sec.), Auto bracketing, Over-impression
Continuous shooting	High speed: 4.7 fps for 17 images in JPEG or for 5 frames in RAW Low speed: (2 fps in JPEG until the memory card is full, for 11 frames in RAW
Image tone	Setting to control the rendition of colour (Natural, Bright, Vibrant). Other appropriate options for landscape and portraits . Black and white function with different filter settings and a wide range of colours
Image processing	DRE (Dynamic Range Enlargement) which greatly increases the contrast range of the image for maximum highlight and shadow detail. Noise reduction for long exposures. Noise reduction in high ISO
Colour space	sRVB or Adobe RVB

WHITE BALANCE

Parameters	Auto, Day, Shade, Cloud, Tungsten, Fluorescent (white, day, neutral, L), Flash, CTE, Manual, Colour temperature (fine tuning available for specific control)

OTHERS

Languages	GB, F, D, ES, P, I, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Chinese (Trad./ Simpl.), Japanese
World time	75 cities, 28 time zones
PRIMEII	(Pentax real Image Engine) increases the number of shades of colour and contrast range to better manage the RAW data stored in the pre viewed image.
DDR2 memory	To optimise the processing and transfer of image data (800 MB/s)
Pixels mapping	To control each pixel and store each pixel defects to prevent them damaging the image quality
AF adjustment	To correct the K-x on the optical plane to prevent front and back focusing issues. This adjustment can be made for a specific lens or for all lenses.
Customisation of the RAW button	
22 Custom functions	
Digital filters	Rec. mode: Toy camera, High contrast, Soft, Star burst, Retro, Extract colour, Fish eye, Custom Playback: Toy camera, High contrast, Soft, Star burst, Retro, Extract colour, Illustration (Pastel, Water colour), Fish Eye, HDR, B&W, Sepia, Colour, Slim, Miniature, Brightness, Base Tweaking, Custom
Other functions	Correction of lens features (distortion and chromatic aberration). Copy right information

SPECIFICATIONS

Construction	Stainless steel chassis
Dimensions	122.5 (L) X 91.5 (H) X 67.5 (P) mm
Weight	515g body only, 580g loaded and ready (with Lithium batteries)

POWER SUPPLY

Battery	4 x AA batteries (lithium, alkaline, rechargeable Ni-MH)
Performance	approx 1100 images (with 4 Lithium batteries) or 420 images (with 4 Ni-MH 1900mAh batteries) (shooting with 50% flash) approx 25 min in video mode
Other sources	Optional AC adapter

SYSTEM'S REQUIREMENTS

PC	Windows XP Home Edition/ Professional or Vista
Macintosh	Mac : OS x 10.3 or more recent

SOFTWARE

PENTAX Digital Camera Utility 4.0 (PENTAX Photo Browser 3 & PENTAX Photo Laboratory 3)